

What is claimed is:

1. A cable assembly adapted for being mounted to a panel, comprising:
an insulative housing defining a mating direction and a longitudinal direction perpendicular to the mating direction and comprising a base and a mating portion extending forwardly from a front face of the base along the mating direction, a pair of mounting ears integrally formed at opposite ends of the base, the insulative housing comprising a bulge and at least one projection respectively located adjacent the front face of the base adapted for engaging with a first face and an opposite second face of the panel, respectively; and
a plurality of contacts received in the insulative housing.
2. The cable assembly as claimed in claim 1, wherein the housing comprises a pair of guiding members forwardly extending from the base by two sides of the mating portion, respectively.
3. The cable assembly as claimed in claim 2, wherein each mounting ear extends upwardly from an upper face of the base and is generally aligned with a corresponding one of the guiding members in a transverse direction perpendicular to both the longitudinal direction and the mating direction.
4. The cable assembly as claimed in claim 3, wherein the at least one projection comprises a pair of projections respectively extending downwardly from the guiding members.
5. The cable assembly as claimed in claim 4, wherein the bulge extends downwardly from the base and is located at a center of the base along the longitudinal direction.

6. The cable assembly as claimed in claim 1, further comprising a cable electrically connecting with the contacts.

7. The cable assembly as claimed in claim 6, further comprising a spacer defining a plurality of slots, and wherein the insulative housing has a mating face and a terminating face opposite to the mating face and defines a cavity extending from the terminating face toward the mating face to receive the spacer, the contacts comprising insulation displacement sections respectively protruding through the slots of the spacer.

8. The cable assembly as claimed in claim 7, further comprising a cover assembled to a rear of the insulative housing, the cover defining a plurality of grooves receiving the insulation displacement sections of the contacts.

9. An electrical system comprising:

a panel defining a first face, a second face opposite to the first face, a mounting opening extending through the first and the second faces and a pair of mounting apertures located above the opening;

a cable assembly comprising:

an insulative housing comprising a base along a longitudinal direction, a mating portion extending forwardly from the base along a mating direction perpendicular to the longitudinal direction and protruding through the mounting opening of the panel, and a pair of mounting ears located at opposite ends thereof and in alignment with the corresponding mounting apertures, the insulative housing comprising a bulge and a projection respectively engaging with the first and the second faces of the panel adjacent the mounting opening

to counterbalance external force exerted on the cable assembly in the mating direction;

a plurality of contacts disposed in the insulative housing; and

a pair of fastening devices rearwardly extending through the mounting apertures of the panel and the mounting ears of the housing to mount the cable assembly on the panel.

10. The system as claimed in claim 9, wherein each mounting aperture comprises a front recess, a rear recess and a round hole located between the front and the rear recesses.

11. The system as claimed in claim 10, wherein each fastening device comprises a washer received in the rear recess of a corresponding mounting aperture, a rivet defining a screw hole and a bolt, the rivet including a plate received in the front recess, a cylindrical post received in the round hole and an annular portion extending through the washer to be received in the rear recess, the bolt extending into the screw hole of the rivet through the mounting aperture of the panel and including a screw post engaging with the screw hole and a head abutting against the panel.

12. The system as claimed in claim 11, wherein the bolt includes a medial portion located between the head and the screw post, the medial portion having a diameter larger than a diameter of the screw hole of the rivet but smaller than a diameter of the mounting aperture.

13. The system as claimed in claim 12, wherein the medial portion of the bolt abuts against the plate of the rivet.

14. A cable assembly comprising:

a panel defining a through opening in a mating direction;

an electrical connector fastened to the panel and including:

an insulative housing defining an elongated base extending along a lengthwise direction perpendicular to said mating direction, and a mating portion extending from said base in the mating direction, said base located on an inner side of said panel while said mating portion located on an outer side of said panel;

a plurality of contacts disposed in the housing; and

said housing further including a protrusion located on the outer side of the panel and engaged with an outer face of said panel for anti-rotation of said connector about an axis which extends along said lengthwise direction; wherein

said opening is properly dimensioned, in a transverse direction which is perpendicular to both said mating direction and said lengthwise direction, to allow said housing to be assembled to the panel along said mating direction from the inner side of the panel without interference derived from said protrusion.

15. The cable assembly as claimed in claim 14, wherein said housing further includes a bulge located on the inner side of the panel and engaged with an inner face of the panel under a condition that said bulge cooperates with the protrusion to sandwich the panel therebetween in said mating direction for enhancing said anti-rotation.

16. A method of assembling a connector to a panel, comprising steps of:

providing a panel with an opening extending through in a mating direction, said panel defining opposite inner and outer sides thereof by two opposite inner and outer faces of said panel;

providing an electrical connector with an insulative housing, said housing including a base with a mating portion extending along said mating direction, a plurality of contacts disposed in the housing;

providing said housing with at least a protrusion beside said base along said mating direction, and also beside said mating portion along a transverse direction perpendicular to said mating direction;

assembling said housing to said panel along said mating direction from the inner side of the panel until said mating portion is properly located on said outer side of the panel;

moving said housing in said transverse direction to have said protrusion engaged with the outer face in said mating direction for anti-rotation; and

fastening said housing to said panel.

17. The method as claimed in claim 16, wherein said housing further includes a bulge located on the inner side of the panel and engaged with the inner face of the panel under a condition that said bulge cooperates with said protrusion to sandwich said panel therebetween in said mating direction for enhancement of said anti-rotation.